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(54) Food compositions with superior blood cholesterol lowering properties.

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The invention relates to foods that contain both sucrose polyesters and vegetable proteins. The foods are effective in reducing blood plasma cholesterol levels. In particular, the invention is a fat-containing and protein-containing food composition comprising fat ingredients, protein ingredients, and non-fat and non-protein ingredients; wherein at least 1 gram per serving of the total fat consists essentially of a sucrose fatty acid ester having at least 4 fatty acid ester groups, each fatty acid having from about 8 to about 22 carbon atoms; and wherein at least 1.5 grams per serving (by protein content) of the total protein comprises vegetable protein.

The invention is also a method for lowering plasma cholesterol levels comprising administering to a human susceptible to or afflicted with hypercholesterolemia the present food compositions, wherein the compositions are administered to pro-

vide at least about 0.5% sucrose fatty acid ester in the daily diet (dry weight basis) and a daily dietary ratio of vegetable protein to animal protein of at least about 50:50. Importantly, the level of high density lipoproteins in the plasma is maintained while the level of total cholesterol is lowered. The method is also effective in lowering plasma triglyceride levels.

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The invention is also a method for lowering plasma cholesterol levels comprising administering to a human susceptible to or afflicted with hypercholesterolemia the present food compositions, wherein the compositions are administered to pro-



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which under Rule 45 of the European Patent Convention
shall be considered, for the purposes of subsequent
proceedings, as the European search report

Application number

EP 87 20 2531

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|---|--|--|--|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int. Cl.4) |
| X | PATENT ABSTRACTS OF JAPAN, vol. 9, no. 104, (C-279)(1827) May 8, 1985 & JP-A-59 232 048 (NIPPON YUSHI K.K.) 26-12-1984 * Whole abstract * -- | 1-8,10 | A 23 L 1/305 A 23 L 1/308 A 23 L 1/38 A 23 G 9/02 A 61 K 31/70 |
| X | EP-A-0 034 858 (PROCTER & GAMBLE) * Claims 5,6,7,8,9,11;12,13,14,15, 16 * -- | 1-8,12, 13,15, 17 | |
| X | EP-A-0 069 412 (PROCTER & GAMBLE) * Claims 1,4,6,7,8,9,11; example III * -- | 1-8, 13 | |
| X | FR-A-2 478 431 (RHONE POULENC) . / . | | TECHNICAL FIELDS SEARCHED (Int. Cl.4) A 23 L A 23 G A 61 K |
| INCOMPLETE SEARCH | | | |
| <p>The Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims.</p> <p>Claims searched completely: 1-20</p> <p>Claims searched incompletely:</p> <p>Claims not searched: 21-25</p> <p>Reason for the limitation of the search:</p> <p>Method for treatment of the human or animal body by surgery or therapy (see art. 52(4) of the European Patent Convention).</p> | | | |
| Place of search The Hague | Date of completion of the search 30-06-1989 | Examiner VAN MOER | |
| CATEGORY OF CITED DOCUMENTS | | T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | |
| X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document | | | |



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| DOCUMENTS CONSIDERED TO BE RELEVANT | | | CLASSIFICATION OF THE APPLICATION (Int. Cl.4) |
|-------------------------------------|---|-------------------|--|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | |
| | <ul style="list-style-type: none"> * Page 1, lines 8-17; page 3, lines 13-17; page 5, lines 30-33; page 6, lines 30-35; revendications 1,2,5,8 * -- | 1-8, 15 | |
| D,A | US-A-3 600 186 (MATTSON) | 1 | |
| | <ul style="list-style-type: none"> * Claims 1-6; examples 6,7; column 6, lines 59-62 * -- | | |
| D,A | US-A-4 005 195 (JANDACEK) | 1-20 | <p>TECHNICAL FIELDS SEARCHED (Int. Cl.4)</p> <hr/> <hr/> |
| | <ul style="list-style-type: none"> * Claims 1-64; column 1, lines 49-60 * ----- | | |